

Title (en)

ROTATING BODY FOR APPLYING PRESSURE, MANUFACTURING METHOD FOR SAME, AND HEATING DEVICE

Title (de)

ROTATIONSKÖRPER ZUR DRUCKANWENDUNG, HERSTELLUNGSVERFAHREN DAFÜR UND ERWÄRMUNGSVORRICHTUNG

Title (fr)

CORPS TOURNANT POUR APPLICATION DE PRESSION, SON PROCÉDÉ DE FABRICATION ET DISPOSITIF CHAUFFANT

Publication

**EP 2947518 A4 20160817 (EN)**

Application

**EP 14741052 A 20140114**

Priority

- JP 2013007471 A 20130118
- JP 2013251150 A 20131204
- JP 2014003389 A 20140110
- JP 2014000129 W 20140114

Abstract (en)

[origin: US2014301763A1] The present invention relates to a pressure rotating member which achieves the shortening of a warm-up time while suppressing a non-recording material-contacting area's temperature rise. The pressure rotating member which is used in a thermal fixing apparatus includes: a substrate; and an elastic layer that is formed on the substrate and has a void, wherein the elastic layer contains a needle-shaped filler, wherein the needle-shaped filler has such a thermal conductivity  $\lambda_1$  of the elastic layer in a direction along a rotary axis of the pressure rotating member as to be 6 times or more and 900 times or less of a thermal conductivity  $\lambda_2$  of the elastic layer in a thickness direction.

IPC 8 full level

**G03G 15/20** (2006.01)

CPC (source: CN EP US)

**B05D 1/30** (2013.01 - US); **G03G 15/2057** (2013.01 - CN EP US); **G03G 15/206** (2013.01 - CN EP US); **G03G 2215/2035** (2013.01 - CN EP US)

Citation (search report)

- [XDYI] JP 2002351243 A 20021206 - CANON KK
- [Y] EP 2410385 A1 20120125 - CANON KK [JP]
- [Y] US 2004132597 A1 20040708 - SAKAKIBARA HIROYUKI [JP], et al
- See references of WO 2014112358A1

Cited by

EP3171226A4

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 2014301763 A1 20141009; US 9152110 B2 20151006**; CN 104937498 A 20150923; CN 104937498 B 20180529; EP 2947518 A1 20151125; EP 2947518 A4 20160817; EP 2947518 B1 20190313; JP 2015129900 A 20150716; JP 6302253 B2 20180328; US 2015266055 A1 20150924; US 9304461 B2 20160405; WO 2014112358 A1 20140724

DOCDB simple family (application)

**US 201414310345 A 20140620**; CN 201480005191 A 20140114; EP 14741052 A 20140114; JP 2014000129 W 20140114; JP 2014003389 A 20140110; US 201514730766 A 20150604